U.S. Application Serial No. 10/071,370 Group Art Unit: 1647 Examiner: Lockard, J.M. Merck Case No.:18199CB

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REMARKS

This Amendment is filed in response to the Office Action mailed July 13, 2004. A Petition to Extend Time under 37 C.F.R. § 1.136(a) for one (1) month, up to and including December 29, 2004, is enclosed.

An Information Disclosure Statement, with the appropriate fee for a large entity, is entered herewith.

Figure 4H, Figure 4K, Figure 4M, Figure 5C, Figure 6B, and Figure 7A are amended to include sequence identifiers.

Claims 22, 26, 30 and 34 are amended to include sequence identifiers.

Applicants respectfully take the position that this application is now in proper form for allowance. Early action to that end is earnestly solicited. The Examiner is invited to contact the undersigned attorney if clarification is required on any aspect of this Amendment.

Respectfully submitted,

Date: 16 December 2004

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Reg. No. 36,545

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Amendment to the Drawings:

The attached sheet of drawings includes changes to Figure 4H, Figure 4K, Figure 4M, Figure 5C, Figure 6B, and Figure 7A to include sequence identifiers as follows:

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Figure 4H - SEQ ID NOs 1 and 2;
Figure 4K - SEQ ID NOs 3 and 4;
Figure 4M - SEQ ID NOs 5 and 6;
Figure 5C - SEQ ID NOs 1 and 2;
Figure 6B - SEQ ID NOs 3 and 4; and,
Figure 7A - SEQ ID NOs 5 and 6.
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These sheets replace the like sheets submitted as formal drawings by Applicant on 8 February 2002.

Therefore,

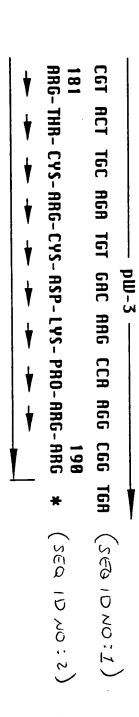
- (a) in Figure 4H, the sequence identifiers SEQ ID NO:1 and SEQ ID NO:2 are added;
- (b) in Figure 4K, the sequence identifiers SEQ ID NO:3 and SEQ ID NO:4 are added;
- (c)in Figure 4M, the sequence identifiers SEQ ID NO:5 and SEQ ID NO:6 are added;
- (d) in Figure 5C, the sequence identifiers SEQ ID NO:1 and SEQ ID NO:2 are added;
- (e) in Figure 6B, the sequence identifiers SEQ ID NO:3 and SEQ ID NO:4 are added; and,
- (f) in Figure 7A, the sequence identifiers SEQ ID NO:5 and SEQ ID NO:6 are added.

Attachment: Six (6) Replacements Sheets

Six (6) Annotated Sheet Showing Changes

DEC 2 0 2004 88

FIG. 4H



AGG ARG-ARG-LYS-THR-LYS-GLY-LYS-ARG-LYS- GLN-SER-LYS-THR-PRO-GLN-THR-GLU-GLU-PRO-HIS-120 THR-PHE-SER- GLN-RSP-VAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-LEU-GLU-THR-THR-LYS-ALA-GLU-HCH TTC CTG 158 LEU AGG AAA TGA TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT (SEQ ID NO: 3) (SEQ ID NO: 4) ACC RAG GGG RAG RGG RAG CAA AGC RAA ACC CCA CAG ACT GAG [L44] pCU2 pCU2 FIG. 4K 150 CTG GAG ACG ACA AAG GCA GAA **L26** GAN CCC CAC

AGG 138 ARG

(SED 10 NO: 5)

THR-	ACA		-311	ATC		ARG-	090	
PHE-	ACA TIC TCT		THR-	ATC ACT ATG		CYS-	161	
120 SER-	TCT		MET-	ATG		88 SER-	AGT	
Ž	CAG		-GLN	CAG		-A 19	399	
-ASP	GAT		-31I -	ATC		CYS.	TGC	
-DUC-	GTA		-037	HIL		- CYS	161	
-[[0]	CTC		.SA1	AAG		-6LY-	66T	
- CYS	TGC		· ILE-	ATT		- ASP-	GAC	
- EL N:	688		· PRO	000		. GL U	686	
-C42	16C	; 3	- PRO	CAG ATC TTA RAG ATT CCC CCC AAT	- pCı	- GL Y-	TGC TGT GGT GAC GAG GGT CTG	- pcu
- 9.R.G.	966		- ASN	AAT	pCU2.1	- LEU:	CTG	pcu2.1 -
THR- PHE-SER- GLN-ASP-VAL-LEU-CYS-GLU-CYS-ARG-PRO-ILE-LEU-	CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT		- ARG	000		98 ARG-CYS-SER-GLY-CYS-CYS-GLY-ASP-GLU-GLY-LEU-HIS-CYS-UAL	CAC TGT	
-11E-			110 - ASP	CGG GAT		98 98	TGT	
רבת-	CT6		-PRO	CCA			GTG	
-	989		- HIS.	CAT		- AL A	939	
- III	ACG		- SER-	CAT TCC TAC GTG		- LEU-	CTA	
- THR-	ACA		-TYR-	TAC		-SA1	AAG	
-SAT	AAG		- שון-	6TG		· THR-	ACA	
81.8-	ACG ACA AAG GCA GAA		. GL U-	GAC ATG		· Al A-	ACA GCC AAC	
GLU- THR-THR-LYS- ALA-GLU-	699		188 ILE- THR-MET-GLN-ILE-LEU- LYS- ILE-PRO-PRO-RSN-ARG-ASP-PRO-HIS-SER-TYR-URL-GLU-MET-	ATG		-ALA-LEU-LYS-THR-ALA-ASN-	AAC	

FIG.

(sea 10 Nose)

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FIG. 5C

181 ARG- THR- CYS- ARG- CYS- ASP- LYS- PRO- ARG- ARG CGT ACT TGC AGA TGT GAC AAG CCA AGG CGG TGA — pШ-3 (SEQ ID NO: 2) (SEQ ID NO: 2)

10/071,370 RED-LINED ANNOTATED SHEET (596)

AGG ACA TIC ARG-ARG-LYS-THR-LYS-GLY-LYS-ARG-LYS-GLN-SER-LYS-THR-PRO-GLN-THR-GLU-GLU-PRO-HIS-120 THR-PHE-SER- GLN-ASP-UAL-LEU- CYS-GLU-CYS-ARG-PRO-ILE- LEU- GLU-THR-THR-LYS- ALA-GLU-CTG 158 LEU AGG AAA TGA TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT (SEQ 10 NO: 3) SEQ 10 NO =4) ACC ARG GGG ARG AGG ARG CAR AGC ARA ACC CCA CAG ACT GRG GAR CCC [[44] pCU2 pCV2 CTG GAG ACG ACA AAG GCA GAA **L26** CAC

FIG. 6B

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-							
THR-	ACA		ILE-		ATC		ARG-
- PHE	ПС		THR-				.CYS-
120 -SER	TCT		MET	100	ATG		80 SER-
	CAG		- SLN		CAG		· GL Y-
- ASP	GAT		-ILE-		ATC		· CYS-
)- UAL	GTA		-LEU-		TTA		- CYS
-LEU	CTC		- LYS		AAG		- ցլ γ.
- CYS	160		- ILE		HTH		- ASP-
120 130 THR- PHE-SER- GLN-ASP-VAL-LEU-CYS- GLU-CYS-ARG-PRO-ILE-LEU-	ACA TTC TCT CAG GAT GTA CTC TGC GAA TGC AGG CCT ATT CTG		ILE- THR- MET-GLN- ILE-LEU- LYS- ILE- PRO-PRO- ASN- ARG- ASP-PRO		ACT ATG CAG ATC TTA AAG ATT CCC CCC AAT		- GL U
- CYS	160	l pc	- PRO)))	- pCV2.1	- 6Լ Կ.
- ARG	998	pCV2.1	- ASN		AAT	12.1	- LEU:
- PRC	CCT		- ARG		993		- HIS-
130 -1LE-	HI		- ASP	110			. CAS-
- LEU	CTG		- PRO		GAT CCA	,	- UAL
- GLU	GAG		- 1				- ALA:
- THR	GAG ACG		- SER		CAT TCC		- LEU
I- THR	ACA		- TYR		TAC		-SAT
- LYS	AAG		- NAL		TAC GTG		- THR
- ALA	ACA AAG GCA		- GLU		686		- ALA
GLU- THR-THR-LYS- ALA-GLU-	GAA		HIS-SER-TYR-UAL-GLU-MET-		ATG		98 HRG-CYS-SER-GLY-CYS-CYS-GLY-RSP-GLU-GLY-LEU-HIS-CYS-UAL-ALA-LEU-LYS-THR-ALA-ASN-
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CGC TGT AGT GGC TGC TGT GGT GAC GAG GGT CTG CAC TGT

GTG GCG

CTA AAG ACA GCC AAC

FIG. 7A

138 ARG

(SEA 10 NO: 6)

AGG TAA

(SEQ 10 NO: 5)